IN THE CLAIMS:

- (Original) A multi-catalyst injection system comprising:
 - a vessel suitable for storing fluid cracking catalyst:
- a separator disposed in the vessel and defining at least two compartments within the vessel:
 - a plenum defined in the vessel and fluidly coupled to each compartments; and
- a plurality of dispense mechanisms, a respective one of each dispense mechanisms coupled to a respective compartment.
- 2. (Original) The system of claim 1, wherein the separator extends from a bottom of the vessel to an elevation short of a top of the vessel.
- (Original) The system of claim 2, wherein the separator is substantially planar.
- 4. (Original) The system of claim 2, wherein the separator comprises:

two or more flanges extending radially outward from a common joint, the two or more flanges forming an angle therebetween that is less than approximately 180 degrees.

- 5. (Original) The system of claim 4, wherein at least one of the two or more flanges is rotatable around the common joint.
- 6. (Original) The system of claim 1, wherein the at least two of the compartments have different volumes.
- (Original) The system of claim 1, wherein the at least two compartments are substantially equal in volume.
- 8. (Original) The system of claim 1, wherein at least one of the compartments has an adjustable volume.

9. (Original) The system of claim 1 further comprising:

a plurality of catalyst fill ports disposed through a top of the vessel, wherein the plenum is positioned proximate the fill ports.

- 10. (Original) A fluid catalytic cracking system comprising:
 - a fluid catalytic cracking unit; and
- a catalyst injection vessel coupled to the fluid catalytic cracking unit having a plurality of catalyst storage chambers.
- 11. (Original) The system of claim 10 further comprising:

a separator coupled to a bottom of the vessel and extending to an elevation short of a top of the vessel.

12. (Original) The system of claim 11, wherein the separator comprises:

two or more flanges extending radially outward from a common joint, at least two of the flanges forming a dog-leg orientation.

13. (Original) The system of claim 11, wherein the separator comprises:

two or more flanges extending radially outward from a common joint, at least two of the flanges rotatable around the common joint.

- 14. (Original) The system of claim 10, wherein the at least two of the compartments have different volumes.
- 15. (Original) The system of claim 10, wherein the at least two compartments are substantially equal in volume.
- 16. (Original) The system of claim 10 further comprising:
 - a plurality of catalyst fill ports disposed through a top of the vessel; and
- a plenum is positioned within the vessel proximate the fill ports and fluidly coupled to the compartments.

17. (Original) The system of claim 10 further comprising:

a pressurizing system coupled to the vessel adapted to control the pressure within the vessel in a range of about 5 to about 80 pounds per square inch (about 0.35 to about 5.6 kg/cm²).

- (Original) The system of claim 10 further comprising:
 a respective metering device coupled to each compartment.
- 19. (Original) The system of claim 10 further comprising: a separator coupled between a bottom and a top of the vessel; and at least one hole extending through the separator proximate the top of the vessel.
- 20. (Original) The system of claim 10, wherein at least one of the compartments has an adjustable volume.
- 21. (Original) A method for injecting catalyst into a fluid catalytic cracking unit, comprising:

storing catalyst in a first compartment of a vessel; storing catalyst in a second compartment of the vessel; and dispensing catalyst from the first compartment into a fluid catalytic cracking unit.

- (Original) The method of claim 21 further comprising:
 adjusting a volume of at least one of the compartments.
- (Original) The method of claim 21 further comprising: dispensing catalyst from the second compartment into the fluid catalytic cracking unit.

- 24. (Original) The method of claim 23, wherein the step of dispensing catalyst from the first and second compartments occurs simultaneously.
- 25. (Original) The method of claim 23, wherein the step of dispensing catalyst from the first and second compartments occurs sequentially.
- 26. (Original) The method of claim 22, wherein the catalyst stored the first and second compartments are chemically different.